

**Amendments to the Specification**

Please replace paragraph [0003] with the following paragraph:

"Electrospinning, or electrostatic fiber formation, is a method of producing fibers with diameters ranging from 10 nm to 10 m by accelerating a jet of charged polymer solution within an electric field. Electrospinning is a rapid, simple, and inexpensive method to fabricate high aspect ratio, submicron diameter size fibers with high surface area. Potential applications of such fibers include filtration and composite materials, catalyst support, optical and chemical sensors, drug delivery, and other."

Please replace paragraph [0037] with the following paragraph:

"As a result of the application of the electric potential to the electrode 5, a portion of the metastable polymer dispersion 8 can be electrically pulled through the orifice 4, to create liquid column motion, followed by the formation of a polymer jet 10. The polymer jet 10 is accelerated in the electric field and is directed toward the grounded collector 7. Under the conditions associated with the presence of high-voltage electric field, the metastable polymer dispersion 8 can rapidly become unstable, leading to phase separation and segregation."